

DEPARTMENT OF THE ARMY  
HEADQUARTERS, UNITED STATES ARMY MATERIEL COMMAND  
5001 EISENHOWER AVENUE, ALEXANDRIA, VA 22333-0001

AMC SUPPLEMENT 1  
to AR 190-11  
CHANGE 1

21 October 1996

Military Police

PHYSICAL SECURITY OF ARMS, AMMUNITION, AND EXPLOSIVES

This change is necessary to ease the intra-installation movement of Category I-IV Arms, Ammunition, and Explosives (AA&E).

1. AMC Supplement 1, 21 November 1995, to AR 190-11, 30 September 1993, is changed as follows:

Page 9, paragraph 7-1. Delete subparagraph d and replace with the following:

d. The following security procedures will be followed for intra-installation and unit training movement of AA&E.

(1) Within designated restricted AA&E storage Areas:

(a) Category I AA&E:

1 Will be placed in the custody of a commissioned officer, warrant officer, noncommissioned (E-4 and above), DOD civilian (GS-5 and above), wage grade employee of equivalent grade, or DOD contractor employee in a similar responsible position. A list of authorized personnel will be approved by the local commander, or his/her designated representative.

2 A two-person rule will be established during the movement of Category I missiles and rockets.

3 Will be transported in a closed van/truck secured with a secondary padlock. Large movements in containers that are banded and palletized need not be transported in a closed vehicle.

(b) Categories II, III, and IV AA&E will be under continuous positive control of a designated, responsible person.

(2) Outside designated restricted AA&E storage areas:

(a) Categories I and II AA&E:

1 Will be placed in custody of a commissioned officer, warrant officer, noncommissioned officer (E-5 and above), DOD Civilian

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(GS-5 and above), wage grade employee of equivalent grade, or DOD contractor employee in a similar responsible position. A list of authorized personnel will be approved by the local commander, or his/her designated representative.

2 A two-person rule will be established during the movement.

3 Will be transported in a closed van/truck secured with a secondary padlock and a serially numbered seal.

(b) Categories III and IV AA&E will be under continuous positive control of a designated, responsible person.

2. File this in front of the supplement.

The proponent of this regulation is the United States Army Materiel Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the Commander, HQ AMC, ATTN: AMCPE-S, 5001 Eisenhower Avenue, Alexandria, VA 22333-0001.

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AMC Supplement 1  
to AR 190-11

21 November 1995

Military Police

PHYSICAL SECURITY OF ARMS, AMMUNITION, AND EXPLOSIVES

Applicability. This supplement applies to Headquarters (HQ), U.S. Army Materiel Command (AMC); major subordinate commands (MSC); their subordinate installations and activities, to include Government-owned contractor-operated (GOCO) facilities; contractor-owned contractor-operated (COCO) facilities; Unit Materiel Fielding Points (UMFP); staging areas; program, project, or product managers; and separate installations and activities reporting directly to HQ AMC.

Supplementation. Approval for this supplement was granted by Headquarters, Department of the Army (HQDA) (DAMO-ODL) 1 November 1995. Further supplementation of this regulation is prohibited without prior approval of HQ AMC (AMCPE-S). When supplements are approved and issued, one copy of each supplement will be furnished to HQ AMC (AMCPE-S), and Chief, AMC Security Support Division (SSD), ATTN: AMXMI-SD.

AR 190-11, 30 September 1993, is supplemented as follows:

Page 2, paragraph 1-8. Add subparagraphs a and b:

a. Commander, U.S. Army Armament Research, Development, and Engineering Center (ARDEC), is responsible for the development and updating of supplemental guidance on the security of arms, ammunition, and explosives (AA&E) in research and development environment. That guidance is provided in **appendix J**.

b. Commander, U.S. Army Test and Evaluation Command (TECOM), is responsible for development and updating of supplemental guidance on security of AA&E in the test and evaluation environment. That guidance is provided in **appendix K**.

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\*This supplement supersedes AMC Supplement 1, 2 August 1990, to AR 190-11, 31 March 1986, and all changes.

Page 4, paragraph 2-4f. Add the following:

Deviation from mandatory standards and procedures is permitted only when a waiver or exception has been granted. Requests for waiver or exception to this regulation will be submitted to the Deputy Chief of Staff for Operations and Plans, ATTN: DAMO-ODL, 400 Army Pentagon, Washington, DC 20310-0400, through the Chief, AMC Security Support Division, ATTN: AMXMI-SD, Fort Gillem, Forest Park, GA 30050-5000 and the Commander, U.S. Army Materiel Command, ATTN: AMCPE-S, 5001 Eisenhower Avenue, Alexandria, VA 22333-0001. All requests for waiver or exception must contain sufficient justification, compensatory measures with cost estimates, and be submitted in the format prescribed in appendix G of **AMC Supplement 1 to AR 190-13**. Outside continental United States (OCONUS) AMC elements, supported by host-tenant agreements, will forward waiver/exception requests through their host-tenant headquarters and provide an information copy of the request to their respective MSC, and this headquarters.

Page 4, paragraph 2-6d. Add the following:

A determination will be made that all sensitive conventional arms, ammunition, and explosives have been inventoried per AR 710-2 and the AMC supplement thereto, DA Pamphlet 710-2-1, and **AMC-R 740-17**.

Page 9, paragraph 3-6h(6)(a). Add the following:

Operational checks are defined as dynamic checks (actual independent activation and test of each sensor from the protected facility to the alarm monitor panel located at the central intrusion detection system (IDS) monitor console, or to a keypad or autoterm providing the key pad or autoterm is located in a protected area, that uses a passcode to operate the system (keypad only) and at least one sensor activation signal is tested through each keypad and autoterm to the monitor panel). Checks of IDS circuit continuity will not meet this requirement. However, where advanced sensor systems which provide the capability to remotely stimulate individual sensors via an electronically activated sensor phenomenology device are installed, this capability may be used to fulfill the testing requirement. These checks will be conducted monthly for facilities storing category I missiles and rockets and all categories of arms. They will be conducted quarterly for categories II through IV ammunition and explosives (A&E) storage facilities. The checks may be conducted by operational in lieu of security personnel. In that event, the commander will issue written instructions to that effect. The maintenance of records reflecting such checks will remain the responsibility of security personnel. Checks must be nondestructive to sensors; e.g., grid wire sensors will not be cut or broken as a method of checking.

Page 10, paragraph 3-6h. Add subparagraphs (9), (10), and (11):

(9) When IDS or closed-circuit television (CCTV) is used, the building or room where the monitor panel is located will be equipped with a duress alarm. Tests of the duress alarm will be conducted at the same interval required for the system, e.g., where monthly checks are required. A monthly test of the duress alarm is also required.

(10) Duress alarms will not enunciate an alarm in the same location as the switch. Duress switches at remote locations will alarm at the military police (MP) desk or security force dispatcher's office. Duress switches at the MP desk or security force dispatcher's office, will alarm at a remote manned post equipped with radio communications, or it will sound via radios to all motorized patrols.

(11) Doors equipped with panic hardware (i.e., locking devices which do not extend to the exterior of the door, but which may be readily operated from inside the secured area during an emergency) will also be provided accountable numbered frangible seals or be monitored by an electronic access control or monitoring system. Seals will be controlled per procedures in AMC Supplement 1 to AR 190-13. AA&E production areas are governed by DOD 5100.76M and DOD 5160-65M, and appendix H of AR 190-11.

Page 10, paragraph 3-7c. Add the following:

Those security forces at installations/activities required to be armed by either AR 190-11 or at the local commander's discretion, will be armed with .38 caliber revolvers, .45 caliber pistols, 9mm pistols, M16 rifles, or any combination thereof. Installations with categories I and II arms, ammunition, or explosives in bulk storage (not including weapons authorized for use by security forces), will have either M16 rifles or shotguns readily available for issue to arm the security personnel on duty, plus reaction forces required by the installation physical security plan or plant protection plan. Shotguns will be acquired and maintained at a rate deemed appropriate by the installation commander. CTA 50-909 prescribes the number and type of rounds to be issued with each type weapon. Qualification with rifles and familiarization with shotguns will be accomplished during initial training programs and annually thereafter for personnel to be armed. Security personnel who will be armed with a shotgun in emergencies may be equipped with protective masks and helmets, if deemed appropriate by the installation commander. Personnel who routinely wear prescription eyeglasses will be issued optical inserts for protective masks.

Page 10, paragraph 3-7e. Add the following:

Records will be maintained as specified by AR 25-400-2, Modern Army Recordkeeping System (MARKS).

Page 10, paragraph 3-8b(2). Add the following:

Keys to access/secure switches on IDS control units located inside storage structures will be retained in switch keyways. If practicable, keyways will be modified to preclude key removal; or toggle switches may be used in lieu of key-operated switches.

Page 10, paragraph 3-8c. Add subparagraphs (1) and (2):

(1) The appointment of the Installation Key and Lock Control Officer (IKLCO) will be signed by the Installation Commander. If the Installation Commander is a general officer, the appointment may be signed by the deputy commander or chief of staff.

(2) The commanders/directors/chiefs for the organization having primary/direct responsibility for their respective AA&E storage facilities will appoint their key and lock custodian (KLC). The KLC will then appoint the alternate custodians.

Page 11, paragraph 4-1a(5). Add the following:

Class 5 containers storing up to 50 category IV arms are not subject to IDS, lighting, and security patrol requirements. In lieu of class 5 containers, a commercial vault or safe may be used if it is rated by Underwriters Laboratory to be equal to the standards for class 5 designation; i.e., 30 minutes delay against surreptitious entry and 10 minutes delay against forced entry. Additionally, GSA-approved class 1 containers may be used for this purpose. The test certification label will be affixed to either side of the control drawer of the security container to indicate class I or class V criteria defined by Federal specifications.

Page 12, paragraph 4-2a(1). Add the following:

Storage in facilities not meeting the design criteria of appendix G, basic regulation, will be authorized only through the granting of a physical security waiver or exception. See **AMC Supplement 1 to AR 190-13**.

Page 12, paragraph 4-2a(3). Add the following:

Storage in existing facilities which do not meet the requirements set forth in the basic regulation may continue to be used only if covered by a physical security waiver or exception granted per AMC Supplement 1 to AR 190-13. This includes material fielding points.

Page 12, paragraph 4-2c(3). Add the following:

Security of the M12 rack can be defeated by incorrect placement of the three locking bars. The bars must be positioned in the following sequence:

- (a) Left locking bar - rearmost.
- (b) Right locking bar - middle position.
- (c) Vertical locking bar - forwardmost position.

To ensure closure in proper sequence, locking bars will be stenciled with 1/2-inch painted numbers in a contrasting color as follows: 1 - rear, 2 - middle, 3 - forward.

Page 13, paragraph 4-2e(1). Add the following:

The high-security shrouded hasp (MIL-H-29181) will be used to secure categories I and II AA&E storage facilities to enhance their security, and as a replacement hasp on all other storage structures requiring that action. The high-security padlock (MIL-P-43607) will be used to secure all categories I and II AA&E storage facilities, and as a replacement padlock on all other storage structures requiring that action. Medium-security padlocks (MIL-P-43951) already on hand may continue to be used to secure categories III and IV AA&E. The medium-security padlock will not be procured for use on AA&E facilities. Obsolete locking bar and T-pin hardware will not be used as the primary closure hardware on sensitive AA&E storage structures.

Page 13, paragraph 4-2f(1). Add the following:

The requirement for IDS protection applies to all risk categories of complete small arms. Specifically excluded from the requirement for IDS protection are parts for arms, such as barrels and major subassemblies, that are stored per category IV arms standards. Also excluded are rocket and missile launchers with an unpackaged weight of 100 pounds or less that must be protected as category III arms. The IDS used for protection of arms rooms will have a duress signaling component in addition to a balanced magnetic switch (BMS) on the door and volumetric coverage provided by motion detection sensors. Bulk storage facilities will be equipped with BMS on doors and grid wire sensors (GWS) on vents or other openings larger than 96 square inches. BMS installed on doors to bulk storage facilities will be installed on the inside of the door. Additional IDS protection (volumetric or building skin coverage) may be required to compensate for substandard bulk storage structures. Vents configured so as to preclude entering the structure through the vent, or fishing stored material from the structure through the vent, will not require GWS. The constant surveillance requirement in event of IDS failure applies only to category II arms.



Page 15, paragraph 4-8b. Add the following:

Such items may be stored in DA storage facilities if they are physically segregated by security screening or similar means from DA-owned weapons. Contractors are not authorized to store privately-owned explosives on AMC installations unless it can be clearly shown to be of benefit to the Government. Provost marshals/security managers will coordinate with appropriate contracting officers to ensure applicable portions of this supplement are incorporated into contracts.

Page 15, paragraph 4-8. Add subparagraph c:

c. Accountability procedures contained in AR 710-2 (Supply Policy Below the Wholesale Level), DA Pam 710-2-1 (Using Unit Supply System-Manual Procedures), and **AMC Supplement 1 to AR 710-2** will apply to contract guard weapons and ammunition at government-owned contractor-operated facilities.

Page 16, paragraph 5-1. Add the following:

Basic standards for these items during research, development, engineering, test, and evaluation operations are provided at appendixes J and K. Standards for storage of nonnuclear missiles, rockets, ammunition, and explosives in operational, shipping, and receiving buildings will meet the requirements of basic regulation.

Page 17, paragraph 5-2a(2)(a). Add the following:

Earth-covered magazines will be equipped with BMS on doors and GWS on vents. The GWS will not be required on vents if vents are configured in such a way as to preclude entering the magazine through the vent, or fishing stored material from the magazine through the vent. Storage or production buildings that provide less resistance to forced entry than that provided by earth-covered magazines will be equipped with additional IDS protection (i.e., volumetric or structure skin coverage).

Page 17, paragraph 5-3g. Add the following:

High security padlocks will not be used on vehicle gates. Low security padlocks (MIL-P-17802) used on vehicle gates providing access to the same area may be keyed alike. The number of locks in such systems will be restricted to the least number consistent with operational requirements.

Page 18, paragraph 5-5. Add the following:

Determination of patrol frequencies will be made by the AMC Command Provost Marshal, in writing, based upon the circumstances at each location where such temporary storage occurs.

Page 18, paragraph 5-6a. Add the following:

The high-security shrouded hasp (MIL-H-29181) will be used to secure categories I and II AA&E storage facilities to enhance their security, and as a replacement hasp on all other storage structures requiring that action. This high-security padlock (MIL-P-43607) will be used to secure all categories I and II AA&E storage facilities, and as a replacement padlock on all other storage structures requiring that action. Medium-security padlocks (MIL-P-43951) already on hand may continue to be used to secure categories III and IV AA&E. The medium-security padlock will not be procured for use on AA&E facilities. Obsolete locking bar and T-pin hardware will not be used as the primary closure hardware on sensitive AA&E storage structures.

Page 19, paragraph 5-9a. Add the following:

Storage area vehicle and personnel gates will be secured with low security padlocks (MIL-P-17802D, Grade II, Class 1, Type A). Keyed-alike padlock sets may be used for this purpose so long as gates provide access into a single, common area.

Page 19, paragraph 5-9a(6). Add subparagraphs (a), (b), and (c).

(a) Areas in which risk categories I and II items or materials are stored must be fenced, with stringent movement controls, enforced (to include checks or inspections of all persons and vehicles entering and leaving) to ensure that only authorized material is introduced or removed. Such movement controls will be implemented by fully qualified security force personnel. Vehicle inspections as a minimum will include: glove compartment, under and behind seats, under hood, trunk, and inside closed vans that are not locked and sealed with a serially numbered seal. Additionally, hunting, fishing, woodcutting, etc., or any activity not conducive to supporting the AA&E storage mission, is prohibited in these areas.

(b) Areas in which only risk categories III and IV items or materials are stored are not required to be fenced and enforced movement controls are correspondingly less stringent. This includes those areas which were previously fenced per earlier, more restrictive requirements. The erection of new fencing and checks or inspections of persons and vehicles entering and leaving such areas are required only if local considerations would justify those procedures. That determination will be made by the installation commander, based upon applicable threat information pertinent to the location and storage materials.

(c) These instructions are directed specifically to the requirement to check (or inspect) persons and vehicles entering and leaving ammunition and explosive storage areas. They are not intended to interfere with existing safety requirements and do not relax the general prohibition against privately-owned vehicles entering such areas.

Page 19, paragraph 5-9c. Add subparagraphs (1) and (2).

(1) A two-person rule will be established for access to storage facilities containing category I missiles and rockets, or the explosive complete rounds for such weapons. Two authorized persons must be present to open and enter such structures. The following lock and key control procedures will be implemented:

(a) Each category I missile and rocket (or explosive rounds therefore) storage facility will be secured with two padlocks: an approved high security padlock (lock A) and an approved low security padlock (lock B).

(b) Keys to A locks will be secured in separate key containers from those containing the keys to B locks.

(c) One person will not be given access to the keys to both A and B locks.

(d) Different key custodians will be designated in writing to administer the A and B control systems. Separate key control registers will be maintained for the two systems.

(2) Bona fide contingency operations and mission-essential activities which would be prevented by adherence to the two-person rule are exempted from the above procedures. This is to allow for legitimate ready access to category I weapons under extraordinary circumstances and must be justified in each instance.

Page 19, paragraph 5-10. Add the following:

Storage areas containing sensitive AA&E will be designated and posted as restricted controlled areas when all mandated security measures are in place. Individual structures uploaded with sensitive AA&E will then be designated as restricted (limited) areas. In the event security deficiencies exist with the structures or the area (e.g., lack of requisite lights, IDS, fences, or high security hasps), the storage areas will be designated as restricted limited areas.

Page 21, paragraph 7-1. Add subparagraph d:

d. The following security procedures will be followed for intra-installation and unit training movement of AA&E.

(1) Within designated restricted AA&E storage areas:

(a) Category I AA&E:

1 Will be placed in the custody of a commissioned officer, warrant officer, noncommissioned officer (E-5 and above), or DOD civilian (GS-5 and above) or DOD contractor employee in a similarly responsive position.

2 A two-person rule will be established during the movement of category I missiles and rockets.

3 Will be transported in a closed van/truck secured with a secondary padlock.

(b) Categories II, III, and IV AA&E:

1 Will be under continuous positive control of designated, responsible personnel.

2 Will be transported in a closed van/truck secured with a secondary padlock.

(2) Outside designated restricted AA&E storage areas:

(a) Categories I and II AA&E:

1 Will be placed in the custody of a commissioned officer, warrant officer, noncommissioned officer (E-5 and above), or DOD civilian (GS5 - and above) or DOD contractor employee in a similarly responsive position.

2 A two-person rule will be established during the movement.

3 Will be transported in a closed van/truck secured with a secondary padlock and a serially numbered seal.

(b) Categories III and IV AA&E.

1 Will be under continuous positive control of designated, responsible personnel.

2 Will be transported in a closed van/truck secured with a secondary padlock.

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Page 25, paragraph 8-2a(8)(b). Add the following:

All AMC installations and activities will submit DA Form 3056 (Report of Missing/Recovered Firearms, Ammunition and Explosives) per the 72-hour requirement. In event of recovery or resolution of reported loss or discrepancy, DA Form 3056 indicating recovery will be submitted. Information copies of all submitted DA Forms 3056 will be provided to HQ AMC (AMCPE-S).

Page 38. Add appendixes J and K.

The proponent of this supplement is the United States Army Materiel Command. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to the Commander, HQ AMC, ATTN: AMCPE-S, 5001 Eisenhower Avenue, Alexandria, VA 22333-0001.

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APPENDIX J

SECURITY OF AA&E DURING RESEARCH, DEVELOPMENT  
AND ENGINEERING OPERATIONS

J-1. Purpose. This appendix prescribes security standards for sensitive conventional arms, ammunition and explosives (AA&E) in the custody of AMC activities during research, development, or engineering operations.

J-2. Applicability. The standards outlined in this appendix apply only to activities with a research, development, or engineering mission.

J-3. General. AA&E used in research, development and engineering operations are characterized by a wide range of configurations, quantities, forms, and compositions. The physical security afforded must be commensurate with the sensitivity of the AA&E which is to be protected. Items which would be of little attractiveness to criminal or terrorist elements because of low utility, no casualty/damage effect, impracticable adaptability, or great size and weight would obviously not require the protection appropriate for an item such as an automatic weapon or hand grenade. AR 190-11, appendix B, will be used to categorize AA&E. Uncategorized experimental items will be categorized by research, development, and engineering personnel in coordination with physical security specialists using the logic table contained in AR 190-11, appendix B. Classified AA&E must be protected per AR 380-5 (Department of the Army Information Security Program), AR 190-11, and this supplement. Physical security inspections of facilities used during research, development and engineering of AA&E will be conducted per AR 190-13.

J-4. Standards for protection of arms.

a. Facility criteria. Arms shall be stored, to the extent practicable, in facilities which meet the requirements of the basic regulation. When the local commander has determined it is not feasible to store arms in an arms storage facility meeting the requirements of the basic regulation, arms may be stored in the following manner:

(1) GSA-approved class 5 security containers may be used to store up to 25 category II, III or IV weapons. Containers storing category II weapons must be protected with IDS.

(2) Arms undergoing conditioning must be secured in conditioning units which are housed in a building or room which meets the requirements of a "secure" structure per AR 190-51 (Security of Unclassified Army property (Sensitive and Nonsensitive). Conditioning units weighing less than 500 pounds must be secured to the structure. Conditioning unit doors must be secured with a GSA-approved low security padlock or equivalent built-in lock. Category I and II weapons must be protected with IDS and security lighting unless under continual surveillance. Tests which require weapons to be

subjected to long-term environmental conditions will be secured in 8-gauge wire mesh cages securely fastened to reinforced concrete foundations. Doors must be secured with GSA-approved low security padlocks or equivalent built-in locks. The cages will be designated and posted as restricted (limited) areas and must be located within restricted (controlled) areas surrounded by FE-5 chain link fence or equivalent. Category I and II items storage require IDS protection or constant surveillance by operational or security personnel. (See appendix I, basic regulation, for additional guidance concerning security of AA&E during test and evaluation operations.)

b. Security patrols. Security patrols will check IDS-equipped storage facilities containing category I missiles and rockets (M&R) and category II arms every 8 hours when operating personnel are not present. Facilities housing conditioning units containing category I M&R must be checked every hour; those containing category II arms every 2 hours when operational personnel are not present. Security patrols will check facilities housing conditioning units containing categories III and IV arms every 4 hours when operating personnel are not present. Operational personnel are responsible for notifying security personnel when conditioning units are in use.

c. Transportation. Category I weapons undergoing research, development, and engineering will not be transported in privately-owned vehicles (POV). Categories II, III, and IV arms being moved between storage locations and laboratories, test areas, and ranges within a military installation may be transported by POV when government transportation is unavailable. Categories II, III, and IV arms may be transported in POVs off the installation only during exigent circumstances which involve nonstop travel. The activity commander or director must approve off-installation travel orders indicating arms will be transported in a POV. The provost marshal or security officer and the transportation officer must also approve the travel orders. Individuals transporting arms by POV will notify security personnel when they depart the installation of their travel route and estimated time of arrival. They will call the security force dispatchers of both originating and destination installations upon reaching their destination. No more than six weapons will be transported at one time. When transporting weapons off the installation, the weapons will be rendered inoperable per AR 190-11. Items removed will be locked in separate areas of the vehicle; e.g., the weapon in the trunk and the bolt in the glove compartment. Operational personnel transporting weapons off the installation in POV are not required to be armed. Ammunition and explosives may not be transported by POV. A concerted effort will be made to ensure these exigencies are kept to an absolute minimum.

d. Accountability.

(1) Arms undergoing modifications or alterations which permanently change their nomenclature, or whenever new arms are developed or manufactured, the activity involved in the modification, alteration, development, or manufacture of a new nomenclature item will maintain an



inventory history file and notify the local accountable property book officer, who will report the change or new nomenclature to the Department of Defense (DOD) Central Registry located at Rock Island, IL.

(2) Arms which have been removed from storage must be under the positive control of the individual receipted for the arms.

(3) Arms will be receipted for and inventoried per AR 710-2 and DA Pam 710-2-1.

J-5. Standards for protection of ammunition and explosives. To the extent practicable, ammunition and explosives will be stored by logistics activities until actually required. Once removed from the logistics activities storage facilities, ammunition and explosives will be maintained in service magazines, laboratories, or conditioning units until the items or materials are expended or become nonreusable scrap.

a. Facility criteria.

(1) Service magazines. Ammunition and explosives not in a laboratory or conditioning unit will be secured in a service magazine. Service magazines will conform to the requirements of the basic regulation for the particular security risk category of material being stored.

(2) Laboratories. Ammunition and explosives in laboratories pose unique problems. Laboratories are physically designed to ensure the safety of operational personnel, which in turn is likely to reduce structural strength and security. Since most laboratories use and store small quantities of ammunition or explosives, they are not as likely to be targeted by terrorist or criminal elements.

(a) The laboratory must be designated and posted as a restricted (limited) area.

(b) To the extent practicable, the laboratory (or building in which the laboratory is located) must meet the requirements of a "secure" structure per AR 190-51. Ammunition or explosives must be kept in a container which will provide evidence of any attempt at forced entry and which is secured with a GSA-approved low security padlock or built-in equivalent lock.

(c) DA Forms 4604-R (Security Construction Statement) are not required.

(d) Laboratories will not store category I rounds. Category II ammunition and explosives will be protected by IDS and security lighting.

(3) Conditioning units:

(a) Rooms which house environmental conditioning units will be designated and posted as restricted (limited) areas.

(b) The room which houses environmental conditioning units will meet the requirements of a "secure" structure per AR 190-51. If this is not possible due to safety considerations, conditioning units will be located in

a room which is constructed in such a manner that it will reveal any attempted forced entry. Rooms will be secured with a GSA-approved low security padlock or equivalent locking hardware. The conditioning unit will also be secured with a GSA-approved low security padlock or equivalent.

(c) DA Forms 4604-R are not required.

(d) Conditioning units containing security risk category I and II ammunition or explosives must be protected with IDS and security lighting when operational personnel are not present.

(4) Scrap containers. Nonreusable scrap ammunition and explosives will be placed in scrap containers which will be emptied daily and secured in facilities which meet the requirements for category IV of the basic regulation.

b. Security patrols.

(1) Service magazines. Checks will be made per basic regulation.

(2) Laboratories. Checks will be made at intervals not to exceed 8 hours during nonoperational periods.

(3) Conditioning units. Conditioning units housing category I items require constant surveillance. Unattended conditioning units containing category II materials must be checked every hour. Unattended conditioning units housing categories III and IV materials must be checked every 4 hours. Operational personnel are responsible for notifying security personnel when conditioning units are in use and require additional security patrol checks.

(4) Scrap. Security patrols will check indoor scrap storage facilities once each 24 hours. Activities will notify the security force in the event the daily scrap pickup has not been made. Checks of safety- and security-approved outdoor facilities will be made every 8 hours.

c. Transportation. Ammunition and explosives will not be transported in privately-owned vehicles.

d. Accountability.

(1) All ammunition and explosives will be under continuous accountability and control of ammunition and explosives control officers (AECO). An AECO will be appointed in writing for each organization authorized to receive ammunition and explosives. Appointments will be made by the commander or director of the activity.

(2) Ammunition and explosives can only be requisitioned by or issued to authorized individuals. Authorization must be obtained by submitting a DA Form 1687 (Notice Of Delegation of Authority - Receipt for Supplies) to the installation logistics management activity.

(3) Any inventory change, whether caused by issue, turn-in, transfer, use, or expenditure, must be documented to provide an audit trail. Local forms may be created to facilitate this task. It is recommended that an automated accountability system be designed and used so that current and accurate inventories can be more readily maintained. The installation logistics management activity will maintain records reflecting the inventory of each research, development or engineering activity. Each organization, additionally, will maintain its own independent inventory records.

(4) AECOs will ensure inventories are conducted monthly and results reconciled with the applicable accountability system. Discrepancies which cannot be resolved will immediately be reported to the installation provost marshal or security manager.

J-6. Lock and key control. Locks and keys will be controlled per the basic regulation and this supplement, with the exception that keys to laboratories may be personally retained. Laboratory keys which are personally retained will be inventoried on a show basis monthly.

APPENDIX K

SECURITY OF AA&E DURING TEST AND  
EVALUATION (T&E) OPERATIONS

K-1. Scope. This appendix provides physical security storage guidance for material categorized as sensitive AA&E per AR 190-11, appendix A, and items with classified components, while the material is undergoing testing and evaluation.

K-2. General. a. Security officers will ensure that security requirements are considered and included in designs during planning for construction of test and evaluation facilities.

b. Keys and locks for T&E-unique sensitive AA&E storage will be controlled per basic regulation, paragraph 3-8.

c. The measures imposed by this appendix are minimum standards. Security officers must continually be aware of the local threat and increase security measures when necessary.

d. Where the requirements of this appendix would defeat the purpose of testing or evaluating the item involved, security officers must request waivers or exceptions per basic regulation, paragraph 2-4.

e. Army Materiel Command activities located on other than AMC installations will incorporate this guidance into host-tenant agreements to ensure application of these standards. Conflicts or disagreements concerning policy implementation will be reported through command channels for resolution by higher headquarters.

f. When intrusion detection systems (IDS) are employed, the overall protective system will provide for the delay of intruders after activation of alarms to allow security forces to respond and prevent removal of sensitive items. This may be accomplished by using barriers between the IDS and items of security interest, or by fastening the items or their containers together or to the structure.

K-3. Standards. a. Environmental surveillance testing. Items which must be exposed to natural hydrological and climatic conditions for conduct of long-term environmental storage tests will be stored within prefabricated metal cages located at sites established in compliance with the following criteria:

(1) Cages will be constructed of 8-gauge high-carbon manganese steel mesh or 6-gauge steel mesh with a 2-inch diamond grid welded to a steel frame.

(2) The frame will be securely attached to the foundation.

(3) The foundation will be of 6-inch reinforced concrete with 6-by 6-inch mesh reinforcement or equivalent reinforcement bars. Where test requirements preclude storing the item on a floor of this type, the cage will be anchored in concrete footing.

(4) Doors will be constructed of the same material and in the same manner as prescribed for the cage. Door hinges will have a fixed-pin security hinge or a type which provides equivalent security. When nonsafety stud hinges are used, all exposed hinges will be spot-welded or otherwise secured to prevent easy removal. All exposed hinges will be bradded or spot-welded.

(5) If cages are not within fenced restricted (limited) areas, they will be surrounded by an additional protective barrier. This barrier will either be an outer cage secured to the same foundation as the inner cage, or security fencing with clear zones as specified in AR 190-11, paragraph 5-3.

(6) Access doors to cages will be secured with low-security padlocks. Where cages are located inside a large fenced-restricted (limited) area, two locks will be required. Where storage is in double cages or cage enclosed by a fence, one low-security lock will be required on each door or gate.

(7) Protection and surveillance--

(a) Intrusion detection systems are required on all structures used to secure categories I, II, and classified AA&E unless they are under constant surveillance by security or operational personnel. Cages used for storage of categories I, II, and classified AA&E will be surrounded by an additional protective barrier. Intrusion detection systems are recommended for test and evaluation containers used to secure categories III and IV materials. The two-man rule will apply at all times for category I items.

(b) Security patrol requirements are as follows:

<u>With IDS</u>		<u>Without IDS</u>
Cat I	4 hours	NA (IDS required)
Cat II	8 hours	NA (IDS required)
Cat III	24 hours (A&E)	4 hours (A&E)
	8 hours (arms)	1 hour (arms)
Cat IV	24 hours	8 hours

(8) Security lighting is required for categories I and II material and is optional depending on threat, cost, safety, and availability of power for categories III and IV.

b. Environmental conditioning units (mobile and fixed). Items which must be exposed to hydrological and climate conditions in environmental conditioning units will be secured per the following criteria:

(1) Conditioning unit doors (lids, covers) will be secured by high-security padlocks and hasps, unless structural characteristics of the unit doors and walls are judged insufficient to justify this equipment. In the latter situation, two standard heavy pattern steel hasps may be used, secured with two low-security padlocks. Conditioning units, secured within a locked building, cage, or separately fenced area, require only one lock. As stated above, the type of lock is dependent upon the structure of the conditioning unit.

(2) Construction of conditioning unit walls, floors, and ceilings will be as substantial as possible, but will be dictated by operational concerns.

(3) Windows and similar openings of sufficient size to permit entry or removal of items (96 square inches or more with the least dimension greater than 6 inches) will be secured by a means consistent with the construction of walls (e.g., steel mesh).

(4) Unless under continuous surveillance, mobile units will be temporarily disabled by the most effective means. Recommended means include fabrication of a lockable device for the trailer fifth wheel, chaining wheels to the chassis, or securing landing gear in extended position and locking the jack handle to the trailer frame.

(5) Whenever possible and required by the local commander, security lighting and fencing will be provided for the units.

(6) Protection and surveillance--

(a) Intrusion detection systems are required on all structures used to secure categories I, II, and classified AA&E unless under constant surveillance by security or operational personnel. Intrusion detection systems are recommended for test and evaluation containers used to secure categories III and IV material. The two-man rule will apply at all times for category I items.

(b) Security patrol requirements are as follows:

<u>With IDS</u>		<u>Without IDS</u>
Cat I	4 hours	NA (IDS required)
Cat II	8 hours	NA (IDS required)
Cat III	24 hours (A&E)	4 hours (A&E)
	8 hours (arms)	1 hour (arms)
Cat IV	24 hours	8 hours

c. Trailers, transportainers, detonator cubicles, or other similar containers. Sensitive AA&E stored in such containers for T&E operational purposes will be secured per paragraph 3b(1).

d. Test vehicles and aircraft. Sensitive AA&E may be stored in or installed on test vehicles and aircraft when test operations would be negatively affected by the dismounting or removal of AA&E items or components. When possible, AA&E items or systems stored in this manner will be rendered inoperable. Specific requirements are as follows:

(1) Vehicles or aircraft should be parked within a fenced restricted area. Arms, ammunition, and explosives of all categories that cannot be locked within the vehicle or aircraft will require constant surveillance.

(2) Vehicles and aircraft with categories I, II, or classified munitions on board, or vehicles and aircraft with both operable weapons and ammunition on board, will be provided continuous surveillance by security or operational personnel, or equipped with IDS. The IDS system may either protect the vehicle or aircraft directly or protect the fence or clear zones around the vehicles requiring security. The two-man rule will apply at all times for category I items.

(3) When vehicles and aircraft contain only weapons or ammunition and explosives, IDS is not required and patrol requirements will be as follows: category III - weapons every hour, ammunition every 4 hours; category IV - weapons, ammunition, and explosives every 8 hours.

e. Other test and evaluation applications. In situations other than those addressed by paragraphs K-3a, b, c, and d, above, involving the storage of sensitive AA&E or items with classified components in a unique T&E environment, security measures will be established by the local commander and per the following criteria:

(1) Security barriers, temporary or permanent, will be used wherever possible. Clear zone policy will be 30 feet inside the fence and 12 feet outside the fence wherever possible. Security lighting may be used where indicated by local threat.

(2) Approved locking devices and hasps will be used consistent with the construction of the structure involved. Construction will be as substantial as possible, but will be dictated by operational requirements.

(3) Categories I, II, and items and material with classified components must be under continuous surveillance by either operational personnel, security personnel, IDS, or CCTV. Intrusion detection systems are recommended for categories III and IV items, especially at remote storage and testing areas. The two-man rule will apply at all times for category I items.

(4) Security patrol requirements are provided in paragraph K-3a(7)(b). All locally established requirements will be documented in writing by the local commander, then forwarded for approval through channels as specified in basic regulation, paragraph 2-4.

f. Transportation. Category I weapons undergoing test and evaluation will not be transported in POVs. Categories II, III, and IV arms being moved between storage sites and test sites may be transported by POVs when government transportation is not available. Categories II, III, and IV arms may be transported off post in POVs only during exigent circumstances which involve nonstop travel. The activity commander or director must approve off-installation travel orders indicating arms will be transported in a POV. Individuals transporting arms by POV will notify security personnel when they depart the installation of their travel route and estimated time of arrival. They will call security dispatchers at both originating and destination installations upon arrival. No more than six weapons will be transported at one time. When transporting weapons off the installation, the weapons will be rendered inoperable per AR 190- 11. Items removed will be locked in separate areas of the vehicle, e.g., the weapons in the trunk and bolt in the glove compartment. Operational personnel transporting weapons off the installation in POVs are not required to be armed. Ammunition and explosives may not be transported by POV. A concerted effort will be made to ensure these exigencies are kept to an absolute minimum.